

Form PTO-1449 (modified)

List of Patents and Publications of Applicant

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.
MAXC:014USSerial No.
10/675,592Applicant
Sergey DzekunovFiling Date:
September 30, 2003Group:
1744U.S. Patent Documents
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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
JS	A66	2004/0029240	02/12/04	Acker	13	00	05/02/03
JS	A67	6,027,488	4/9/02	Baumann et al.	604	522	06/03/98
JS	A68	6,368,851	04/09/02	Baumann et al.	435	285.2	05/27/99
JS	A69	6,403,348	06/11/02	Rubinsky et al.	435	173.7	07/19/00
JS	A70	6,492,175	12/10/02	Müller et al.	435	450	06/29/00
JS	A71	6,773,669	08/10/04	Holaday et al.	422	44	11/08/00

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation

25554164.1

EXAMINER:

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11-16-05

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.



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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
st	A1	2001/0001064	5/10/01	Holaday	435	173.6	12/14/00
st	A2	2,955,076	10/4/60	Gossling	N/A	N/A	10/4/56
st	A3	3,676,325	7/11/72	Smith <i>et al.</i>	204	288	6/8/70
st	A4	4,075,076	2/21/78	Xylander	204	206	9/30/75
st	A5	4,081,340	3/28/78	Zimmermann <i>et al.</i>	204	180	1/25/77
st	A6	4,192,869	3/11/80	Nicolau <i>et al.</i>	424	199	10/17/78
st	A7	4,220,916	9/2/80	Zimmermann <i>et al.</i>	324	71	4/13/79
st	A8	4,252,628	2/24/81	Boulton <i>et al.</i>	204	257	2/23/78
st	A9	4,321,259	3/23/82	Nicolau <i>et al.</i>	424	101	3/22/79
st	A10	4,440,386	4/3/84	Achelpohl	271	70	3/4/82
st	A11	4,473,563	9/25/84	Nicolau <i>et al.</i>	424	224	11/2/81
st	A12	4,476,004	10/9/84	Pohl	204	299	10/26/83
st	A13	4,478,824	10/23/84	Franco <i>et al.</i>	424	101	8/8/83
st	A14	4,622,302	11/11/86	Sowers	435	172.2	8/9/84
st	A15	4,652,449	3/24/87	Ropars <i>et al.</i>	424	101	10/27/83
st	A16	4,663,292	5/5/87	Wong <i>et al.</i>	435	287	
st	A17	4,695,547	9/22/87	Hilliard <i>et al.</i>	435	173	4/2/86
st	A18	4,699,881	10/13/87	Matschke	435	173	6/4/86
st	A19	4,752,586	6/21/88	Ropars <i>et al.</i>	435	287	11/20/86
st	A20	4,764,473	8/16/88	Matschke <i>et al.</i>	435	287	11/4/86
st	A21	4,784,737	11/15/88	Ray <i>et al.</i>	204	180.1	4/18/86
st	A22	4,800,163	1/24/89	Hibi <i>et al.</i>	435	287	12/15/87
st	A23	4,804,450	2/14/89	Mochizuki <i>et al.</i>	204	299	12/10/86

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
st	A24	4,822,470	4/18/89	Chang	204	299	10/9/87
st	A25	4,840,714	6/20/89	Littlehales	204	180.1	5/13/87
st	A26	4,849,089	7/18/89	Marshall, III	204	299	2/21/89
st	A27	4,849,355	7/18/89	Wong	435	172.3	12/30/87
st	A28	4,874,690	10/17/89	Goodrich, Jr. <i>et al.</i>	435	2	8/26/88
st	A29	4,882,281	11/21/89	Hilliard <i>et al.</i>	435	287	8/26/86
st	A30	4,906,576	3/6/90	Marshall, III	435	287	5/8/87
st	A31	4,910,140	3/20/90	Dower	435	172.3	4/18/88
st	A32	4,923,814	5/8/90	Marshall, III	435	173	4/26/89
st	A33	4,931,276	6/5/90	Franco <i>et al.</i>	424	533	3/13/89
st	A34	4,945,050	7/31/90	Sanford <i>et al.</i>	435	172.1	11/13/84
st	A35	4,946,793	8/7/90	Marshall, III	435	291	12/12/88
st	A36	4,956,288	9/11/90	Barsoum	435	172.3	4/22/88
st	A37	4,970,154	11/13/90	Chang	435	172.2	8/30/88
st	A38	4,995,957	2/26/91	Ziegler <i>et al.</i>	204	182.8	5/9/88
st	A39	5,007,995	4/16/91	Takahashi <i>et al.</i>	204	299	5/11/89
st	A40	5,036,006	7/30/91	Sanford <i>et al.</i>	435	170.1	8/17/89
st	A41	5,043,261	8/27/91	Goodrich <i>et al.</i>	435	2	6/2/89
st	A42	5,098,843	3/24/92	Calvin	435	287	7/9/90
st	A43	5,100,627	3/31/92	Buican <i>et al.</i>	422	108	11/30/89
st	A44	5,100,792	3/31/92	Sanford <i>et al.</i>	435	172.1	1/24/89
st	A45	5,114,681	5/19/92	Bertoncini <i>et al.</i>	422	111	3/9/90
st	A46	5,124,259	6/23/92	Tada	435	172.1	8/22/90

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st	A47	5,128,257	7/7/92	Baer	435	173	8/31/87
st	A48	5,134,070	7/28/92	Casnig	435	173	10/30/90
st	A49	5,135,667	8/4/92	Schoendorfer	210	782	6/14/90
st	A50	5,137,817	8/11/92	Busta <i>et al.</i>	435	173	10/5/90
st	A51	5,139,684	8/18/92	Kaali <i>et al.</i>	210	748	11/16/90
st	A52	5,173,158	12/22/92	Schmukler	204	182.3	7/22/91
st	A53	5,232,856	8/3/93	Firth	435	287	7/30/90
st	A54	5,283,194	2/1/94	Schmukler	435	287	7/16/92
st	A55	5,424,209	6/13/95	Kearney	435	284	3/19/93
st	A56	5,501,662	3/26/96	Hofmann	604	20	9/12/94
st	A57	5,545,130	8/13/96	Hofmann <i>et al.</i>	604	4	10/12/94
st	A58	5,612,207	3/18/97	Nicolau <i>et al.</i>	435	173.6	3/23/94
st	A59	5,676,646	10/14/97	Hofmann <i>et al.</i>	604	4	3/14/96
st	A60	5,720,921	2/24/98	Meserol	424	44	3/10/95
st	A61	5,728,281	3/17/98	Holmström <i>et al.</i>	204	403	11/13/96
st	A62	6,074,605	6/13/00	Meserol <i>et al.</i>	422	33	3/11/96
st	A63	6,077,479	7/20/00	Milde and Philp	422	23	7/25/96
st	A64	6,090,617	7/18/00	Meserol	435	285.2	12/5/96
st	A65	6,485,961 B1	11/26/02	Meserol	435	285.2	7/18/00

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
st	B1	AU 680890	10/11/94	Austria			

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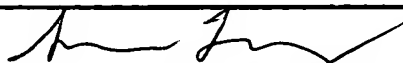
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JA	B2	CA 2,214,800	2/22/02	Canada			
JA	B3	CN 1195997	10/14/98	China			
JA	B4	DE 2405119	9/4/75	Germany			Abstract
JA	B5	DE 3603029	8/6/87	Germany			Abstract
JA	B6	DE 4440386	5/15/96	Germany			
JA	B7	EP 0137504	4/17/85	Europe			
JA	B8	EP 0343783	11/29/89	Europe			
JA	B9	EP 0362758	4/11/90	Europe			
JA	B10	EP 0472772	3/4/92	Europe			
JA	B11	EP 0798309	10/1/97	Europe			
JA	B12	JP 1141582	6/2/89	Japan			Abstract
JA	B13	JP 2131584	5/21/90	Japan			Abstract
JA	B14	JP 2131585	5/21/90	Japan			Abstract
JA	B15	JP 2186993	7/23/90	Japan			Abstract
JA	B16	JP 3195485	8/27/91	Japan			Abstract
JA	B17	JP 4027393	1/30/92	Japan			Abstract
JA	B18	JP 62151174	7/6/87	Japan			Abstract
JA	B19	JP 62171687	7/28/87	Japan			Abstract
JA	B20	JP 62228277	10/7/87	Japan			Abstract
JA	B21	JP 62265975	11/18/87	Japan			Abstract
JA	B22	JP 63141587	6/14/88	Japan			Abstract
JA	B23	JP 6349068	12/22/94	Japan			Abstract
JA	B24	JP 7180029	7/18/95	Japan			Abstract

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st	B25	JP 7320720	12/8/95	Japan			Abstract
st	B26	WO 01/24830	4/12/01	PCT			
st	B27	WO 88/04322	6/16/88	PCT			
st	B28	WO 89/02464	3/23/89	PCT			
st	B29	WO 89/03426	4/20/89	PCT			
st	B30	WO 91/18103	11/28/91	PCT			
st	B31	WO 94/21117	9/29/94	PCT			
st	B32	WO 96/28199	3/11/96	PCT			
st	B33	WO 98/24490	6/11/98	PCT			

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
st	C1	"Advanced Coatings for the Medical Industry," Multi-Arc Scientific Coatings, Copyright © Andal Corp. <i>Biomedical</i>
st	C2	"Biological Buffers," In: <i>The Biological Engineering Handbook</i> , Bronzino (ed.), CRC Press, pp. 1650, c1995.
st	C3	"Ion Bond® 16 Zirconium Nitride Coating," Multi-Arc, Inc., 1996.
st	C4	"Ion Bond® 17 Titanium Aluminum Nitride Coating," Multi-Arc, Inc., 1995.
st	C5	"Ion Bond® 19 Chromium Nitride Coating," Multi-Arc, Inc., 1995.
st	C6	"Ion Bond® Coatings for Instruments, Design Considerations," Multi-Arc, Inc., 1995.
st	C7	"Ion Bond® Coatings for Instruments, Most Commonly Asked Questions," Multi-Arc, Inc., 1995.
st	C8	"Preparation of certain reagents, anticoagulants and preservative solutions," In: <i>Practical Haematology</i> , 5 th Edition, Dacie and Lewis (eds.), Appendices, pp.598, 1975

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Exam. Init.	Ref. Des.	Citation
st	C9	"The Ion Bond Network," Multi-Arc, Inc., 1995.
st	C10	Abatti <i>et al.</i> , "Development of a new geometrical form of micropipette: electrical characteristics and an application as a potassium ion selective electrode," <i>IEEE Trans. Biomed. Eng.</i> , 39:43-48, 1992.
st	C11	Asakami <i>et al.</i> , "Materials for electrode of alkali metal thermoelectric converter (AMTEC) (II)," <i>J. Mater. Sci. Lett.</i> , 9(8):892-894, 1990.
st	C12	Bakker Schut <i>et al.</i> , "A new principle of cell sorting by using selective electroporation in a modified flow cytometer," <i>Cytometry</i> , 11(6):659-666, 1990.
st	C13	Bartoletti <i>et al.</i> , "The number of molecules taken up by electroporated cells: quantitative determination," <i>FEBS Letters</i> , 256(1-2):4-10, 1989.
st	C14	Behrndt and Lunk, "Biocompatibility of TiN preclinical and clinical investigations," <i>Materials Sciences & Engineering</i> , A139:58-60, 1991.
st	C15	Brüggemann <i>et al.</i> , "Low-oxygen-affinity red cells produced in a large-volume, continuous-flow electroporation system," <i>Transfusion</i> , 35(6):478-486, 1995.
st	C16	Capizzi <i>et al.</i> , "Amifostine mediated protection of normal bone marrow from cytotoxic chemotherapy," <i>Cancer</i> , 72:3495-3501, 1993.
st	C17	Chassy <i>et al.</i> , "Transformation of bacteria by electroporation," <i>Trends in Biotechnology</i> , 6(12):303-309, 1988.
st	C18	Coll <i>et al.</i> , "Metallurgical and Tribological modification of titanium and titanium alloys by plasma assisted techniques," <i>Workshop H Society for Biomaterials Implat Retrieval Symposium</i> , September 17, 1992.
st	C19	Davalos <i>et al.</i> , "Electroporation: bio-electrochemical mass transfer at the nano scale," <i>Microscale Thermophysics Engineering</i> , 4:147-159, 2000.
st	C20	Djuzenova <i>et al.</i> , "Effect of medium conductivity and composition on the uptake of propidium iodide into electroporabilized myeloma cells," <i>Biochim Biophys.</i> , 1284(2):143-152, 1996.
st	C21	Dunican and Shivan, "High frequency transformation of whole cells of amino acid producing coryneform bacteria using high voltage electroporation," <i>Bio/Technology</i> , 7:1067-1070, 1998.
st	C22	Egorov and Noikova, "Effect of phase composition of TiN-Ni sintered electrode materials of characteristics of the ESA process," <i>Sov. Powder Metall Met. Ceram.</i> , 29(9):705-710, 1991.

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Exam. Init.	Ref. Des.	Citation
JS	C23	Einck and Holaday, "Enhancement of tissue oxygenation by intracellular introduction of inositol hexaphosphate by flow electroporation of red blood cells," In: <i>Tissue Oxygenation in Acute Medicine (Update in Intensive Care and Emergency Medicine, 33)</i> , Sibbald et al., (eds.), pp. 357-374, c1998.
JS	C24	Eppich et al., "Pulsed electric fields for selection of hematopoietic cells and depletion of tumor cell contaminants," <i>Nat. Biotechnol.</i> , 18:882-887, 2000.
JS	C25	Freeman et al., "Theory of electroporation of planar bilayer membranes: predictions of the aqueous area, change in capacitance, and pore-pore separation," <i>Biophys. J.</i> , 67(1):42-56, 1994.
JS	C26	Gášková et al., "Effect of a high-voltage electric pluses on yeast cells: factors influencing the killing efficiency," <i>Bioelectrochem. Bioenerget.</i> , 39:195-202, 1996.
JS	C27	Gersonde and Nicolau, "Enhancement of the O ₂ release capacity and of the Bohr-effect of human red blood cells after incorporation of inositol hexaphosphate by fusion with effector-containing lipid vesicles," In: <i>Origins of Cooperative Binding by Hemoglobin</i> , 277-282, 1982.
JS	C28	Gersonde and Nicolau, "Improvement of the red blood cell O ₂ release capacity by lipid vesicle-mediated incorporation of inositol hexaphosphate," <i>Blut</i> , 39:1-7, 1979.
JS	C29	Gersonde and Nicolau, "Modification of the oxygen affinity of intracellular haemoglobin by incorporation of polyphosphates into intact red blood cells and enhanced O ₂ release in the capillary system," <i>Biblthca Haemat.</i> , 46:81-92, 1980.
JS	C30	Gersonde and Weiner, "The influence of infusion rate on the acute intravenous toxicity of phytic acid, a calcium-binding agent," <i>Toxicology</i> , 22:279-286, 1982.
JS	C31	Ghosh et al., "Monitoring electroporabilization in the plasm amembrane of adherent mammilian cells," <i>Biophys. J.</i> , 64(5):1602-1609, 1993.
JS	C32	Graziadei et al., "Introduction of unlabeled proteins into living cells by electroporation and isolation of viable protein-loaded cells using dextran-fluorescein isothiocyanate as a marker for protein uptake," <i>Anal. Biochem.</i> , 194:198-203, 1991.
JS	C33	Groves, "Application of the electrical sizing priciple of Coulter to a new multiparameter system," <i>IEEE Transactions on Biomedical Engineering</i> , 27:364-369, 1980.
JS	C34	Herwijer et al., "high speed photo damage cell selection using bromodeoxyuridine/Hoechst 33342 photo sensitized cell killing," <i>Cytometry</i> , 9:143-149, 1988.

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st	C35	Hirai <i>et al.</i> , "A new antitumor antibiotic, FR-900482" <i>J. of Antibiotics</i> , 40/5:607-611, 1987.
st	C36	Hofmann and Evans, "Electronic genetic—physical and biological aspects of cellular electromanipulation," <i>IEEE Engineering in Medicine and Biology Magazine</i> , 6-11, 19-22, 1986.
st	C37	Hofmann <i>et al.</i> , "Electric field pulses can induce apoptosis," <i>J. Membr. Biol.</i> , 169(2):103-109, 1999.
st	C38	Huang and Rubinsky, "Microfabricated electroporation chip for single cell membrane permeabilization," <i>Sensors and Actuators</i> , 89:242-249, 2001.
st	C39	Huang and Rubinsky, "Micro-electroporation: improving the efficiency and understanding of electrical permeabilization of cells," <i>Biomedical Microdevices</i> , 2(2):145-150, 1999.
st	C40	Kinosita and Tsong, "Voltage-induced conductance in human erythrocyte membranes," <i>Biochimica et Biophysica Acta</i> , 554:479-497, 1979.
st	C41	Kobayashi <i>et al.</i> , "Fabrication of zirconium nitride sintered bodies and the application for electrode materials," <i>J. Ceram. Soc. Jpn.</i> , 97(10):1189-1194, (with English summary), 1989.
st	C42	Kotnik and Miklavčič, "Second-order model of membrane electric field induced by alternating external electric fields," <i>IEEE Trans. Biomed. Eng.</i> , 47(8):1074-1081, 2000.
st	C43	Kullmann <i>et al.</i> , "In vitro effects of pentoxifylline on smooth muscle cell migration and blood monocyte production of chemotactic activity for smooth muscle cells: potential therapeutic benefit in the adult respiratory distress syndrome," <i>Am J. Respir. Cell</i> , 8:83-88, 1993.
st	C44	Kurtz and Gordon, "Transparent conducting electrodes on silicon," <i>Sol. Energy Mater.</i> , 15(4):229-236, 1987.
st	C45	Lehninger (ed.), In: <i>Principles of Biochemistry</i> , Chapter 8: 181-194, 1982.
st	C46	Li <i>et al.</i> , "Highly efficient, large volume flow electroporation," <i>Technology in Cancer Research & Treatment</i> , 1(5):341-349, 2002.
st	C47	Lubicki and Jayaram, "High voltage pulse application for the destruction of the gram-negative bacterium yersinia enterocolitica," <i>Bioelectrochem. Bioenerget.</i> , 43:135-141, 1997.
st	C48	Lundqvist <i>et al.</i> , "Altering the biochemical state of individual cultured cells and organelles with ultramicroelectrodes," <i>Proc. Natl. Acad. Sci., USA</i> , 95:10356-10360, 1998.

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jh	C50	Maurer <i>et al.</i> , "Reduction of fretting corrosion of Ti-6Al-4V by various surface treatments," <i>J. Orthop. Res.</i> , 11:865-873, 1993.
jh	C51	Merz <i>et al.</i> , "Determination of HIV infection in human bone," <i>Unfallchirurg</i> , 941:47-49, (with English summary), 1991.
jh	C52	Mouneimne <i>et al.</i> , "Stable rightward shifts of the oxyhemoglobin dissociation curve induced by encapsulation of inositol hexaphosphate in red blood cells using electroporation," <i>FEBS Letters</i> , 275:117-120, 1990.
jh	C53	Narayan <i>et al.</i> , "Diamond, diamond-like and titanium nitride biocompatible coatings for human body parts," <i>Materials Sciences & Engineering</i> , B25:5-10, 1994.
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jh	C56	Nicolau <i>et al.</i> , "Incorporation of allosteric effectors of hemoglobin in red blood cells. Physiological effects," <i>Biblhca haemat.</i> , 51:92-107, 1985.
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jh	C58	Olofsson <i>et al.</i> , "Single-cell electroporation," <i>Curr. Opin. Biotech.</i> , 14:29-34, 2003.
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jh	C62	Rols <i>et al.</i> , "In vivo electrically mediated protein and gene transfer in murine melanoma," <i>Nature Biotechnology</i> , 16:168-171, 1998.

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JS	C63	Rols <i>et al.</i> , "Highly efficient transfection of mammalian cells by electric field pulses: application to large volumes of cell culture by using a flow system," <i>Eur. J. Biochem.</i> , 206(1):115-121, 1992.
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JS	C75	Teisseire <i>et al.</i> , "Physiological effects of high-P ₅₀ erythrocyte transfusion on piglets," <i>J. Appl. Phys.</i> , 58:1810-1817, 1985.
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st	C78	Therin <i>et al.</i> , "A histomorphometric comparison of the muscular tissue reaction to stainless steel, pure titanium and titanium alloy implant materials," <i>J. Materials Science: Materials in Medicine</i> , 2:1-8, 1991.
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st	C84	Weiner, "Right shifting of Hb-O ₂ dissociation in viable red cells by liposomal technique," <i>Biol. of the Cell</i> , 47:65-70, 1983.
st	C85	Weisel <i>et al.</i> , "Adverse effects of transfusion therapy during abdominal aortic aneurysmectomy," <i>Surgery</i> , 83:682-690, 1978.
st	C86	Wisbey <i>et al.</i> , "Application of PVD TiN coating to Co-Cr-Mo based surgical implants," <i>Biomaterials</i> , 8:477-480, 1987.
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	C91	Zimmerman <i>et al.</i> , "Preparation of erythrocyte ghosts by dielectric breakdown of the cell membrane," <i>Biochim. Biophys. Acta</i> , 375(2):209-219, 1975.
	C92	Zimmerman <i>et al.</i> , "Development of a new coulter counter system: measurement of the volume, internal conductivity, and dielectric breakdown voltage of a single guard cell protoplast of <i>Vicia faba</i> ," <i>J. Membrane Biol.</i> , 52:37-50, 1980.

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